CONSUMPTIVE USE RATES FOR ALFALFA ALBUQUERQUE +LOS LUNAS FIELD OFFICE

	CU - IN./DAY			CIR - IN/DAY			ACIR - IN/DAY		
чонтн			PEAK	MEAN	LOW	PEAK	MEAN	LOW	
APRIL								<u> </u>	
MAY	.23	- 19	.08	.20	-17	.07	.22	-78	.07
JUNE	.34	.29	.12	.32	.27	• 1/	.34	.28	•//
JULY	.38	.32	./3	.35	.29	.12	.37	.3/	./2
AUG.	.34	.28	- 11	.30	.25	-10	.32	.27	. /./
SEPT.	.22	- 18	.07	.78	. 15	-06	.26	.17	.07
OCT.	.12	.10	.04	. 10	.08	.03	. 11	.09	-04

Consumptive use studies conducted on alfalfa at Fort Sumner, Portales, and Lovington by the SCS have given us a refined data base on which to make consumptive use computations.

Alfalfa, cut for hay once a month during the growing season. has a variable daily consumptive use rate which reaches a peak value just prior to cutting and a low value which occurs immediately after cutting.

To obtain a consumptive use value for planning or sizing a system, the mean value shown in the table should be used.

For irrigation depth and frequency determinations, the peak daily value is approximately 1.2 times the mean value, while the low value of daily consumptive use is approximately .4 times the mean daily value.

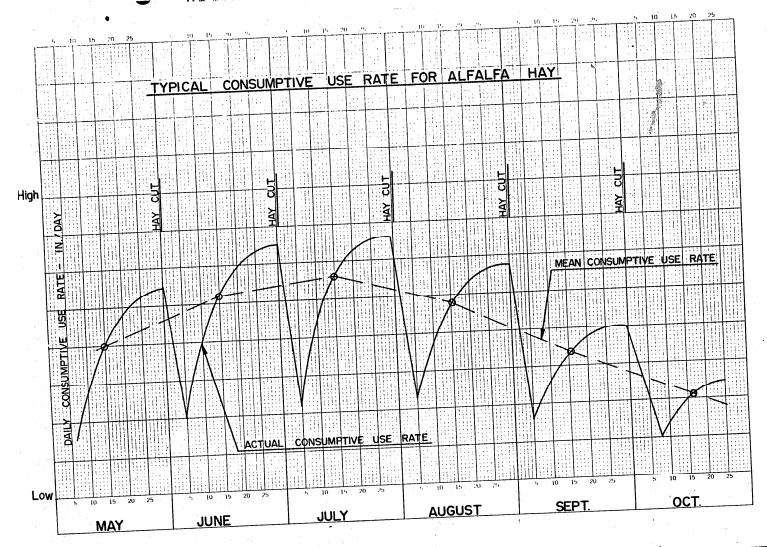
Alfalfa grown for seed production will have a consumptive use value equal to the peak value during $f_{**}^{\#}11$ cover until the middle of full bloom.

As irrigation pumping costs have increased, and many water supplies have dwindled, many alfalfa hay govers are aiming not at maximum hay production per acre, but rather at a maximum hay production per acre-inch of water applied. In areas where this is the grower's objective, a planning or sizing value of .85 to .9 times the mean is applicable to a system devoted to alfalfa hay.

The yearly volumes shown for CU, CIR, and ACIR are calculated using the mean value.

(Over)

YEARLY VOLUME AT 100% EFFICIENCY								
CU	CIR	ACIR						
35.1"	31.2"	33.2"						



CONSUMPTIVE USE REQUIREMENTS

C.C. TR-ZI

for

3/8/

ALCUQUERQUE +LOS LUNASFIELD Office

	•	1	1						
	CROP	MONTH	CU "/DAY	CIR "/DAY	ACIR "/DAY		TOTAL CU "/YR	TOTAL CIR "/YR	TOTAL ACIR "/YR
	Irrigate	d April					29.5	25.6	27.6
	Pasture	May	.15	.13	.14				7.0
		June	.23	.2/	.22				
		July	.27	,24	.26				
		Aug.	.23	.20	, Z Z				
-		Sept.	./5	./2	.14				
-		Oct.	.08	.06	.07				
1	e consur	ptive us	of irric	ated pas	ture fol	ows the	same gene	ral fluct	wations
ale	e due to	not only	Cutting	fon bar	L. I	alialia,	lexcept t	nat these	changes
ih	tensity	can vary	greatly Therefo	rom farm	to farm	no atte	Since not has h	t he grazi een made	ng to plot
уe	ese fluc arly val	tuations	Therefore consur	re, the	above da	a reflec	s the me	n monthl	y or
1					- 01 111	yated pa :	ture.		
	MALL JEG.	may	.0824	.06	.07		21.7	17.9	19.0
L		JUNE	16 48		.15				7
L		JULY!	, 257,4	.22	.24				
		AUG.	. 22 6	.19	.2/				
L		SEPT.	. // 3,3	.08	.10				
L	.36.V					1			
	12 F. J. S.	MRY	. ng	.06	.07		240	2.5.7	22.4
L	_1	JUNE	.75	. 13	19				Gas Char.
L		TULY	•3 <i>0</i>	.27	.29				
L		100	OS.	. 27	.29				
L		SEPT.	.19	.16	.78		***		
L									
							*		
	T								
_				 					. لــنــــن

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

Tabular Computations

CONSUMPTIV	E USE REQUIREMENTS	Carrier of Control	10-2/
	for		3/8/
ALCUQUERN	JE FLOS LUNAS	Field Office	•

	T	·	· ·		•.	**	
CROP	MONTH	CU "/DAY	CIR "/DAY	ACIR "/DAY	TOTAL CU "/YR	TOTAL CIR "/YR	TOTAL ACIR "/YR
ORCHARD W/COVER	MAY	.2/	.19	.20	37.1	33.2	35.2
	ZUNE	,30	.28	.29			
	20LY	.34	.33	.34			
	AUG.	.29	.24	.26			
	SEPT	.18	.16	17			
	OCT.	•11	.૦૬	.09			
DRCHARD WO/COVER	MAY	./6	14	./5	28.6	24.6	26.6
	JUNE	.26	.24	20.			
	JULY	.29	.28	8			
	AUG.	.22	.18	.20			
	SEPT	•11	.08	.09			
	OCT.	.04	0	. જ			
GRAPES	AFRIL	.07	.05	.06	27.9	23./	25.6
	MAY	.13	.12	.12			
	3000	.21	.19	2			
	3044	.24	.23	. 23			
- 1	AUG.	.20	.16	./ප			
	SEPT.	112	.09	.10			
	oct.	.06	.04	.05			
						>	
L	L	لننسسب	<u></u>			HENT PRINTING OFFIC	لحنصا

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

Tabular Computations

CONSUMPTIVE USE REQUIREMENTS

for

ALBUQUERQUE + LOS LUNAS Field Office

TOLY .19 .17 .18 17.7 15.2 AUG35 .31 .33 SEPT .11 .08 .10	18.2
JULY .16 .15 .16 P.3 17.1 JULY .39 .38 .39 AUG15 .10 .12 JULY .19 .17 .18 17.7 15.2 AUG35 .31 .33 SEPT .11 .08 .10	18.2
JUNE .16 .15 .16 P.3 17.1 JULY .39 .32 .39 AUG15 .10 .12 JULY .19 .17 .18 17.7 15.2 AUG35 .31 .33 SEPT .11 .08 .10	18.2
JULY .39 .38 .39 AUG15 .10 .12 JULY .19 .17 .18 17.7 15.2 AUG35 .31 .33 SEPT .11 .08 .10	18.2
JULY .39 .38 .39 AUG15 .10 .12 JULY .19 .17 .18 17.7 15.2 AUG35 .31 .33 SEPT .11 .08 .10	18.2
AUG15 .10 .12 JULY .19 .17 .18 17.7 15.2 AUG35 .31 .33 SEPT .11 .08 .10	
TULY .19 .17 .18 17.7 15.2 AUG35 .31 .33 SEPT .11 .08 .10	
AUG35 .31 .33 SEPT .11 .08 .10	
AUG35 .31 .33 SEPT .11 .08 .10	
AUG35 .71 .33 SEPT .11 .08 .10	16.5
SEPT . 11 . 08 . 10	
AUG. 17 12 014 13.4 10.5	11.9
5507 .26 .23 .25	
0 ct. 07 .04 .06	